

STUDENT NAME: _____ DATE: _____

COURSE: _____ DUE DATE: _____

- OBJECTIVES:**
1. Create precise line geometry to location and size in a CAD system.
 2. Control location and size of basic geometry keyboarding polar coordinates.
 3. Manually modify geometry using a the Offset, Trim and Extend CAD commands.
 4. Demonstrate CAD standard operating procedures of opening and closing a session.

DRAWING TITLE: POLAR COORDINATES

INNIE OR OUTIE: Outie

TIME ON TASK: 1 Hour

DRAWING TYPE: Orthographic, 1 View

MEIDA SIZE: Eng. A (8.5"x11")

MEASUREMENT: Imperial Inch

UNITS: Decimal

PLOT SCALE: 1:1

VIDEO SEARCH: Polar Coordinate Input, CAD Input methods, AutoCAD®, DraftSight®

DRAWING FIELD: Paper Space / Model Space

COMMANDS: Snap, Unit, Grid, Line, Zoom All and Xp, Dtext, File - Save As, Polar Coordinates, Offset, Trim, Extend

INPUT METHODS: Manually keyboarding of coordinates to drawing dimensions to control precise location of geometry by polar coordinate entry (such as @1<3).

DRAWING FIELDS

Model Space: Snap set to .125 (F9), Grid set to 1 (F7), Dynamic Input (F12)

Paper Space: Snap set to .125 (F9)

- INSTRUCTIONS:**
1. Navigate the toggle between Paper and Model Space.
 2. Use commands to set drawing aids as noted for this drawing field.
 3. Manually draw the problem rounded to the inch; L=2 H=1 W=2 in Model Space.
 4. Add text to the title block area to complete the drawing in Paper Space.
 5. Save session as soft copy magnetic file using your initials (XXXProb1-4.dwg).
 6. Plot the drawing on paper as hard copy.
 7. Submit the drawing to your instructor for grading in hard or soft copy format.

PROJECT NOTES: Read dimensions to determine distances. Keyboard input of coordinate data to polar coordinates such that this distance from A to B is entered as @2<0.
